



PATENT ABSTRACTS OF JAPAN

(11)Publication number: **09331552 A**(43)Date of publication of
application: 22. 12 . 97(51)Int. Cl. **H04N 13/04**
G02B 27/02(21)Application number: **08147308**(22)Date of filing: **10 . 06 . 96**(71)Applicant: **ATR TSUSHIN SYST**
KENKYUSHO:KK(72)Inventor: **NOMA HARUO**
MIYASATO TSUTOMU**(54)MULTI-FOCUS HEAD MOUNT TYPE
DISPLAY DEVICE****(57)Abstract:**

PROBLEM TO BE SOLVED: To provide a display device with small size and light weight tracing with a focus adjustment function, and decreasing a fatigue for the use for a long time by providing a plurality of display means displaying independently an image corresponding to at least a remote distance and a near distance onto left and right eyes, adjusting a focus of the image corresponding to the remote distance and the near distance and displaying the resulting image.

SOLUTION: Liquid crystal display devices 7, 9, 11 and half mirrors 21, 22 corresponding to a left eye and liquid crystal display devices 8, 10, 12 and half mirrors 23, 24 corresponding to a right eye are provided to a head mount display device 20, and display of a stereoscopic image is realized by dividing a screen area in 3 stages in the depth direction. In this embodiment, the image in a near distance displayed on the liquid crystal display devices 7, 8 is transmitted

respectively through the half mirrors 21, 23, and given onto left and right eyes via eyepieces 2, 3 and the image in a medium area displayed on the liquid crystal display devices 9, 10 is transmitted through half mirrors 22, 24 and reflected in the half mirrors 21, 23 and given to the left right eyes via the eyepieces 2, 3.

COPYRIGHT: (C)1997,JPO

